

REMARKS

This is a Reply to the Office Action dated July 13, 2005. Claims 1, 4-14, 17-27 and 30-44 are pending in the above-referenced patent application. All of the claims were rejected. Claims 1, 6-14, 19-27 and 32-44 were rejected under 35 USC 102(e) as being anticipated by USPN 6,133,847 to Yang. Claims 4, 5, 17, 18, 30 and 31 were rejected under 35 USC 103(a) as being unpatentable over Yang.

Rejection of Claims Under 35 U.S.C. 102(e)

Rejection of Claims 1, 6-14, 19-27 and 32-44 under 35 USC 102(e) as being anticipated by Yang is respectfully traversed because, for at least the following reasons, Yang does not disclose all of the claimed limitations.

Yang is directed to a remote control device that is able to be programmed after initial manufacture to accommodate the control of additional apparatuses. The remote control device includes a multi-functional, interchangeable user interface where the interface is modified such that it is able to control the functions of a variety of different types of apparatuses (Abstract). This is fundamentally different than the present invention.

As per **Claim 1**, Yang (col. 2, lines 10-14, relied on by the Examiner), does not disclose obtaining device information from devices currently connected to the network, as required by

Claim 1. In col. 2, lines 10-14, Yang simply states:

“In the network application described above, and for any application where multiple appliances to be controlled are located in the same room, the remote control device could receive an interface control signal for each of the appliances on the network or in the room.”

The interface control signal in Yang is simply an appliance signal sent to the remote control which the remote control uses to retrieve the program code for that appliance from the remote control memory (Yang, col. 2, lines 27-30). This has nothing to do with obtaining device information *from devices* currently connected to the network.

Further, Yang (col. 8, lines 14-17 and 14-24), does not disclose generating a user interface based at least on the obtained information, the user interface including at least one reference associated with the device information in each of said devices currently connected to the network, as required by Claim 1. There is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, such that when a reference in the user interface is user selected, the appliance user interface information in the corresponding appliance is accessed to generate a user interface for user interaction with the selected appliance, as claimed herein.

By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of a case where the remote control 100 presents to the user an initial user interface with references for direct access to control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein.

Even if based on the Examiner's interpretation (which Applicant traverses), Yang's remote control provides a user with icons representing appliances (col. 8, lines 14-19, relied on by the Examiner), such icons do not form a user interface including reference links that provide direct access to information contained in the appliances, as claimed herein, wherein each reference itself is used to access device information contained in the corresponding appliance.

There is no case in Yang (col. 8, lines 10-24) which includes the steps of: in response to selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference in the user interface, as required by Claim 1. If the Examiner believes otherwise, Applicant respectfully requests that the Examiner cite specific language in Yang which discloses such limitations.

Not only Yang does not disclose generating a user interface, in Yang there is no step of *presenting to* a user a user interface with a list of references that provide direct access to control programs contained in the appliances themselves (and there is no need for such a feature in Yang). By contrast, as discussed, in Yang, without user intervention the control programs for appliances are either pre-loaded into the remote control memory, or the remote control automatically downloads an appliance control program before the user utilizes the remote control to select the appliance for interaction.

For at least these reasons, it is respectfully requested that rejection of Claim 1, and all claims dependent therefrom, be withdrawn.

Claims 14, 27 and 41 were rejected for essentially the same reasons as Claim 1. As such, rejection of Claims 14, 27 and 41, and claims dependent therefrom, is respectfully

traversed for at least the reasons provided in relation to Claim 1.

As per **Claims 6, 19 and 32**, as discussed, Yang (col. 8, lines 14-24) does not disclose generating and displaying a user interface including references to devices as claimed. Further, the device 100 is the remote control itself which is not a *client device* capable of displaying a user interface is connected to the network, according to the present invention. For at least these reasons, rejection of Claims 6, 19 and 32 should be withdrawn.

As per **Claims 7, 20 and 33**, Yang (col. 8, lines 18-24) does not disclose that the device information in each device further includes a user control interface description for user interaction with the device, and upon detecting user selection of a device from the user interface, accessing and then displaying the control interface description in the corresponding device for user command and control of the device, as claimed.

Not only Yang does not disclose generating a user interface, and there is no step of presenting to a user a user interface with a list of references that provide direct access to control programs contained in the appliances themselves. By contrast, as discussed, in Yang, without user intervention the control programs for appliances are either pre-loaded into the remote control memory, or the remote control automatically downloads an appliance control program before the user utilizes the remote control to select the appliance for interaction.

There is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, such that upon detecting user selection of a device from the user interface, accessing and then displaying the control interface description in the corresponding device for user command and control of the device, as claimed. By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein. There is no case in Yang (col. 8, lines 10-24) which includes the steps of in response to selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference in the user interface, as claimed. If the Examiner believes otherwise, Applicant respectfully requests that the Examiner cite specific language in Yang

which discloses such limitations. For at least these reasons, rejection of Claims 7, 20 and 33 should be withdrawn.

As per **Claims 8, 21 and 34**, Yang (col. 8, lines 14-24) does not disclose generating each user interface such that the reference in that user interface provides access to at least the information in each corresponding device, as claimed. There is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, as claimed. In Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66). Accordingly, there is no disclosure in Yang of information in each corresponding appliance 150 itself which allows, when the user selects an appliance reference in the user interface, the remote control 100 to download the corresponding device information from the appliance itself. For at least these reasons, rejection of Claims 8, 21 and 34 should be withdrawn.

As per **Claims 9, 22 and 35**, Yang (col. 8, lines 14-24) does not disclose generating each user interface such that the user interface further includes device data corresponding to each device based on the information obtained from each device, as claimed. In col. 8, lines 14-24 (or elsewhere in Yang) there is no disclosure of obtaining information from each appliance, as claimed. Further, there is no mention in Yang of a reference including device data for direct access to control program in an appliance, obtained from the appliance. Indeed, Yang states that the functions interface accesses the control software for that appliance from the remote control memory, not from the appliance. Further, the interface control signal in Yang, col. 2, lines 27-30, is simply an appliance signal sent to the remote control which the remote control uses to retrieve the program code for that appliance from the remote control memory. The control signal is not a reference that provides direct access to the control program in appliance, as claimed herein. For at least these reasons, rejection of **Claims 9, 22 and 35** should be withdrawn.

As per **Claims 10, 23 and 36**, Yang (col. 5, lines 41-56) does not disclose that *the device information in each device* includes device identification information, as claimed. Yang simply mentions that the interface control signal contains information that uniquely identifies the particular appliance such that the appropriate control software can be retrieved from memory 120 in the remote controller 100 and utilized to configure user interface 140 to control that particular apparatus. However, Yang does not disclose *the device information in each device* includes device identification information, rather the control signal identifies the appliance, which is not

based on device information in the appliance. If the Examiner believes otherwise, Applicant respectfully requests that the Examiner cite specific language in Yang which discloses such limitations. For at least these reasons, rejection of Claims 10, 23 and 36 should be withdrawn.

As per **Claims 11, 24 and 37**, Yang (col. 4, lines 6-14) does not disclose that the device information in each device includes a user control interface description for user interaction with the device, as claimed. Indeed, in col. 4, lines 6-14, Yang states: “Functions interface 130, in remote control 100, receives the interface control signal from data interface 110 that is transmitted from appliance 160. Functions interface 130 includes processor 135. Based on the particular interface control signal that is received from the particular apparatus, functions interface 130 will utilize that interface control signal to access the control software from memory 120 in order to configure user interface 140 to control that particular apparatus.” As such, the remote control 100 retrieves the program code for that appliance from the remote control memory 120, and not from the appliance that sent a signal to the remote control 100. The appliances themselves do not include a user control interface description for user interaction with the appliance. Applicant believes that user interface description as claimed is not disclosed by Yang, and even if it is disclosed, the user control interface description for each appliance is in the memory 120 of the remote control 100, not the appliance itself as the Examiner suggests. If the Examiner believes otherwise, Applicant respectfully requests that the Examiner cite specific

language in Yang which discloses such limitations. For at least these reasons, rejection of Claims 11, 24 and 37 should be withdrawn.

As per **Claims 12, 25 and 38**, Yang (col. 8, lines 14-24) does not disclose generating each user interface such that each reference in that user interface is to at least the user control interface description in each corresponding device, and detecting user selection of a device from one of said user interfaces, and using a reference in the user interface of the selected device to access the control interface description in the device and then display the control interface description as a control user interface for user command and control of the device, as claimed.

There is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, such that when a reference in the user interface is user selected, the appliance user interface information in the corresponding appliance is accessed to generate a user interface for user interaction with the selected appliance, as claimed herein.

By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads

the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of a case where the remote control 100 presents to the user an initial user interface with references for direct access to control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein. Even if based on the Examiner's interpretation (which Applicant traverses), Yang's remote control provides a user with icons representing appliances (col. 8, lines 14-19, relied on by the Examiner), such icons do not form a user interface including reference links that provide direct access to information contained in the appliances, as claimed herein, wherein each reference itself is used to access device information contained in the corresponding appliance.

There is no case in Yang (col. 8, lines 10-24) which includes the steps of detecting user selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference in the user interface, as claimed.

Not only Yang does not disclose generating a user interface, in Yang there is no step of presenting to a user a user interface with a list of references that provide direct access to control programs contained in the appliances themselves (and there is no need for such a feature in Yang). By contrast, as discussed, in Yang, without user intervention the control programs for appliances are either pre-loaded into the remote control memory, or the remote control automatically downloads an appliance control program before the user utilizes the remote control to select the appliance for interaction. If the Examiner believes otherwise, Applicant respectfully requests that the Examiner cite specific language in Yang which discloses such limitations. For at least these reasons, rejection of Claims 12, 25 and 38 should be withdrawn.

As per **Claims 13, 26 and 39**, Yang (col. 4, lines 6-14; col. 8, lines 14-24) does not disclose generating each user interface wherein that user interface further includes device data corresponding to each device based on the information obtained from each device, the device data providing reference to the user control interface description in each device, as claimed.

As discussed in relation to Claim 11, in col. 4, lines 6-14, Yang states that the remote control 100 retrieves the program code for that appliance from the remote control memory 120, and not from the appliance that sent a signal to the remote control 100. The appliances themselves do not include a user control interface description for user interaction with the appliance. Applicant believes that user interface description as claimed is not disclosed by Yang,

and even if it is disclosed, the user control interface description for each appliance is in the memory 120 of the remote control 100, not the appliance itself as the Examiner suggests.

In Yang, col. 8, lines 14-24, there is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, such that when a reference in the user interface is user selected, the appliance user interface information in the corresponding appliance is accessed to generate a user interface for user interaction with the selected appliance, as claimed herein.

By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of a case where the remote control 100 presents to the user an initial user interface with references for direct access to control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference

in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein. Even if based on the Examiner's interpretation (which Applicant traverses), Yang's remote control provides a user with icons representing appliances (col. 8, lines 14-19, relied on by the Examiner), such icons do not form a user interface including references links that provide direct access to information contained in the appliances, as claimed herein, wherein each reference itself is used to access device information contained in the corresponding appliance.

There is no case in Yang (col. 8, lines 10-24) which includes the steps of detecting user selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference in the user interface, as claimed.

Not only Yang does not disclose generating a user interface, in Yang there is no step of presenting to a user a user interface with a list of references that provide direct access to control programs contained in the appliances themselves (and there is no need for such a feature in Yang). By contrast, as discussed, in Yang, without user intervention the control programs for appliances are either pre-loaded into the remote control memory, or the remote control automatically downloads an appliance control program before the user utilizes the remote control

to select the appliance for interaction. For at least these reasons, rejection of Claims 13, 26 and 39 should be withdrawn.

As per **Claims 40, 43 and 44**, Yang (col. 8, lines 14-24; col. 6, lines 21-34) does not disclose obtaining the associated information of said device in response to the selection of the reference, generating the control interface including the device data corresponding to said device using the associated information, and displaying the control interface on one or more devices connected to the network capable of displaying a user interface, as claimed. In col. 6, lines 21-34, Yang generally describes a control program, which does not disclose the claimed limitations. Indeed, in col. 4, lines 6-14, Yang states that the remote control 100 retrieves the program code for that appliance from the remote control memory 120, and not from the appliance that sent a signal to the remote control 100. The appliances themselves do not include a user control interface description for user interaction with the appliance. Applicant believes that user interface description as claimed is not disclosed by Yang, and even if it is disclosed, the user control interface description for each appliance is in the memory 120 of the remote control 100, not the appliance itself as the Examiner suggests.

In Yang, col. 8, lines 14-24, there is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references

for direct access to user interface information in the appliances, such that when a reference in the user interface is user selected, the appliance user interface information in the corresponding appliance is accessed to generate a user interface for user interaction with the selected appliance, as claimed herein.

By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of a case where the remote control 100 presents to the user an initial user interface with references for direct access to control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein. Even if based on the Examiner's interpretation (which Applicant traverses), Yang's remote control provides a user with icons representing appliances (col. 8, lines 14-19, relied on by the Examiner), such icons do not form a user interface including reference links that provide direct access to information contained in the appliances, as claimed

herein, wherein each reference itself is used to access device information contained in the corresponding appliance.

There is no case in Yang (col. 8, lines 10-24) which includes the steps of detecting user selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference in the user interface, as claimed.

Not only Yang does not disclose generating a user interface, in Yang there is no step of presenting to a user a user interface with a list of references that provide direct access to control programs contained in the appliances themselves (and there is no need for such a feature in Yang). By contrast, as discussed, in Yang, without user intervention the control programs for appliances are either pre-loaded into the remote control memory, or the remote control automatically downloads an appliance control program before the user utilizes the remote control to select the appliance for interaction. For at least these reasons, rejection of Claims 40, 43 and 44 should be withdrawn.

As per **Claim 42** Yang (col. 8, lines 14-24; col. 6, lines 21-34) does not disclose displaying the control interface of a device by obtaining the associated information of said device in response to the selection of the reference, generating the control interface including the device

data corresponding to said device using the associated information, and displaying the control interface, as claimed.

In col. 6, lines 21-34, Yang generally describes a control program, which does not disclose the claimed limitations. Indeed, in col. 4, lines 6-14, Yang states that the remote control 100 retrieves the program code for that appliance from the remote control memory 120, and not from the appliance that sent a signal to the remote control 100. The appliances themselves do not include a user control interface description for user interaction with the appliance. Applicant believes that user interface description as claimed is not disclosed by Yang, and even if it is disclosed, the user control interface description for each appliance is in the memory 120 of the remote control 100, not the appliance itself as the Examiner suggests.

In Yang, col. 8, lines 14-24, there is no disclosure in Yang of a case in which initially information is obtained from the appliances to generate a user interface that includes references for direct access to user interface information in the appliances, such that when a reference in the user interface is user selected, the appliance user interface information in the corresponding appliance is accessed to generate a user interface for user interaction with the selected appliance, as claimed herein.

By contrast, in Yang, the control programs for appliances are: (1) either pre-loaded into

the remote control memory before the user utilizes the remote control to select an appliance for interaction (col. 8, lines 19-24), or if the control program of a particular appliance is not preloaded into the remote control memory, then (2) the remote control automatically downloads the appliance control program before the user utilizes the remote control to select the appliance for interaction (col. 8, lines 59-66).

Accordingly, there is no disclosure in Yang of a case where the remote control 100 presents to the user an initial user interface with references for direct access to control programs contained in the appliances 150 themselves, wherein when the user selects an appliance reference in the user interface, the remote control 100 downloads the corresponding control program from the appliance itself, as claimed herein. Even if based on the Examiner's interpretation (which Applicant traverses), Yang's remote control provides a user with icons representing appliances (col. 8, lines 14-19, relied on by the Examiner), such icons do not form a user interface including references links that provide direct access to information contained in the appliances, as claimed herein, wherein each reference itself is used to access device information contained in the corresponding appliance.

There is no case in Yang (col. 8, lines 10-24) which includes the steps of detecting user selection of the reference, using the reference to access the device and display a control interface including device data using associated information of said device corresponding to the reference

in the user interface, as claimed. For at least these reasons, rejection of Claim 42 should be withdrawn.

Rejection of Claims Under 35 U.S.C. 103 (a)

Rejection of Claims 4, 5, 17, 18, 30 and 31 under 35 USC 103(a) as being unpatentable over Yang is respectfully traversed because no prima facie case of obviousness has been established.

As discussed, Yang does not disclose all of the limitations of base claims from which Claims 4, 5, 17, 18, 30 and 31 depend. However, the Patent Office attempts to modify Yang to reject the claims.

As per **Claim 4, 5**, as the Examiner also states, Yang does not disclose that the information in each device comprises an HTML page contained in that device. The Examiner relies on Official Notice for the proposition that using hyper-text links and HTML pages as claimed would have been obvious to one of ordinary skill in the art. The Examiner further contends that it would have been obvious to one of ordinary skill in the art to include hyper-text links and HTML pages in Yang to control the appliances remotely from the Internet via HTTP protocol.

The Official Notice is respectfully traversed. Not only Yang does not disclose such

limitations, but the prior art does not disclose such limitations as claimed. Applicant further traverses any conclusion under Official Notice of suggestion or motivation to modify Yang as suggested by the Examiner. If the claims are once again rejected, Applicant respectfully requests that the Examiner provide qualifying references under 35 U.S.C. 102 and 103 that disclose the limitations which the Examiner relied on an Official Notice for, and provide suggestion/motivation for the modification suggested by the Examiner.

It is well settled that in order for a modification or combination of the prior art to be valid, the prior art itself must suggest the modification or combination, "...invention cannot be found obvious unless there was some **explicit** teaching or suggestion in the art to motivate one of ordinary skill to combine elements so as to create the same invention." *Winner International Royalty Corp. v. Wang*, No. 96-2107, 48 USPQ.2d 1139, 1140 (D.C.D.C. 1998) (emphasis added). "The prior art **must provide** one of ordinary skill in the art the **motivation** to make the proposed molecular modifications needed to arrive at the claimed compound." *In re Jones*, 958 F.2d 347, 21 USPQ.2d 1941, 1944 (Fed. Cir. 1992) (emphasis added).

There is no motivation or suggestion in Yang to modify it as the Examiner suggests. Further, as discussed above, Yang does not disclose references (e.g., hyper-text links) for direct access to control programs in appliances. As such, there is no reason or motivation to include HTML pages in appliances for access (e.g., via hyper-text links). Further, in Yang, there is no

mention, motivation or suggestion about Internet or HTTP protocol or HTML pages, or suggestion to utilize such protocols in the remote control 100 or the appliances.

Even if the modification was legally justified, it still would not render Applicants' claimed invention obvious. Yang does not disclose a user interface that includes references to appliances, wherein when the reference for a device is selected by the user, the selected reference is used to access control program information stored in the device to obtain the user interface for the selected device in HTML Page form, for the user to control the device. As discussed, there is no user interface in Yang with references for access to appliances, wherein when the reference is selected by the user, the reference is used to access the appliance and access the user interface (i.e., HTML page) for the appliance. Rather, in Yang, an "interface control signal" is used to access control program of the appliance that is already stored in the remote control memory. As such, the suggested modifications are inapplicable to Yang.

For at least the reasons discussed above, one of ordinary skill in the art would not look to Yang to achieve the solutions provided by the present invention. Further, one of ordinary skill in the art would not find any motivation or suggestion in Yang to modify it as the Examiner suggests. Yang does not obtain appliance control interfaces from the appliances, and need not utilize an HTML control page in each appliance as the control program of each appliance is in the memory of the remote controller. Even if Yang is modified as the Examiner suggests, the

result would be HTML control programs in memory 120 of the remote control 100, rather than HTML page control interface in each device, as claimed. This provides no advantage for the purpose of Yang because of the overhead of HTML pages which requires a browser for viewing in the remote controller 100. The remote controller 100 is dedicated to control the devices, and remote control via the HTTP is neither needed nor possible. Yang is simply not concerned with, nor is appropriate for, the Examiner's proposed modification to allow Yang's appliances to interface the remote control 100 with HTTP protocol or Internet. Indeed, Yang teaches away from the claimed invention since Yang stores the appliance control programs in the memory 120 of the remote control 100, without the need for a HTTP or Internet protocol between the remote control 100 and the appliances.

As per Claim 5, as the Examiner also states, Yang does not disclose displaying the user interface on a browser on a device connected to the network, capable of displaying a user interface, as required by Claim 5. Further, for the reasons above, one of ordinary skill in the art would not look to Yang, or to modify Yang as suggested by the Examiner to achieve the claimed invention herein. As such, rejection of Claim 5 should be withdrawn.

Claims 17, 30 were rejected for the same reasons as Claim 4, and should therefore be allowed for at least the reasons provided in relation to Claims 4 and 5.

Claims 18, 31 were rejected for the same reasons as Claim 5, and should therefore be allowed for at least the reasons provided in relation to Claims 4 and 5.

The Patent Office admits that Yang does not teach all limitations in Claims 4, 5, 17, 18, 30 and 31. Therefore, the Patent Office attempts to modify Yang in order to teach Applicant's claimed invention. However, as discussed, there is no teaching in Yang of the claimed limitations. The effort required to modify Yang as suggested by the Examiner would require a substantial undertaking and numerous elements which would not be obvious. The Examiner is improperly using "hindsight" and the teachings of Applicant's own claimed invention in order to modify Yang to render Applicant's claims obvious. For at least these reasons and the additional reasons provided below, rejection of Claims 4, 5, 17, 18, 30 and 31 should be withdrawn.

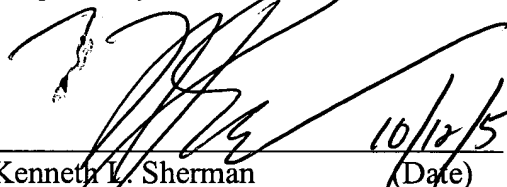
CONCLUSION

Please charge any deficit or credit any surplus to our Deposit Account No. 01-1960. A duplicate copy of this page is enclosed for this purpose.

Accordingly, Applicants respectfully request that the rejections of the claims be withdrawn, and the claims be allowed for at least the aforementioned reasons. If it is believed that a telephone interview will help further the prosecution of this case, Applicants respectfully request that the undersigned attorney be contacted at the listed telephone number.

<p style="text-align: center;">Certificate of Mailing</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October <u>12</u>, 2005.</p> <p>By: Sarah A. Nielsen</p> <p><u>Sarah A. Nielsen</u> Signature</p>

Respectfully submitted,


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